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BEARING SEAL MECHANISM LOOSELY FITTED TO SHAFT

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ABSTRACT

PURPOSE: To prevent invasion of water or rolling-oil from a fitting clearance by providing a **seal** member with opposing **lips** between end portion of an inner ring for a **bearing** and axially opposing same portion of the same ring or both shoulders of a **shaft** and opening a communicating passage for liquid between the **lips** .

CONSTITUTION: A seal member 3 is made of thick material having outer and inner rims divided into two branches respectively and a fitting leg portion formed integrally with lips 3a, 3b, and the outer rim thereof is fixed to an inner surface of an outer ring 2c so as to bridge over an apeture 4 penetrating through the ring 2c while the lips 3a, 3b are contacted with an outer surface of an inner ring 2b at opposing end portions 2a of a bearing 2. Apertures are opened through the seal member 3 between the thick divided leg portions and the lips 3a, 3b. A passage A is formed at opposing end portions of the inner ring 2b and a passage for liquid is provided between the outer ring 2c and an engaging surface of the bearing. Thus, grease is retained and sealed by the seal member 3 and a seal member 10 for a retaining ring 11